

## "Marked Up Version"

### CLAIMS AMENDMENTS

What is claimed is:

Claims 1-5 (not entered)

± 6. (Currently amended)

A method for enhancing the natural ~~mutation-rate of organisms~~ mutagenesis in bacteria [;]  
~~particularly, prokaryotes by culturing or growth of said micro-organisms in media utilizing thio-~~  
~~phosphate as a source of phosphorous~~

- 1) growing bacteria in media utilizing thio-phosphate as a source of phosphate
- 2) performing multiple rounds of bacterial amplification either by diluting into liquid broth and/or by plating individual colonies onto solid agar plates so as to accumulate a high level of mutations with a reasonable yield of viable bacteria.

± 7. (Currently amended)

~~The method of claim 1 used to selectively mutate phage or plasmid DNA comprising:~~

- ~~1) several rounds of phage or plasmid amplification with host cells cultured in the presence of thio-phosphate containing media~~
- ~~2) harvesting the phage or plasmid DNA after each cycle of amplification.~~

A method to facilitate the mutagenesis of recombinant phage DNAs and/or libraries comprising:

- 1) growing bacterial host cells in media containing thio-phosphate as a source of phosphate
- 2) infecting recombinant phage at a suitable moi into the growing bacterial culture
- 3) continued culture and replication of the phage in the host cell culture followed by isolating the phage
- 4) repeating steps 1-3 using the treated phage and fresh host cells until the desired

extent of mutagenesis is achieved.

15. (New)

A method to facilitate the mutagenesis of recombinant plasmid DNA and/or libraries as follows:

- 1) growing bacteria transfected with a recombinant plasmid DNA in media containing thio-phosphate as a source of phosphate
- 2) isolating the plasmid DNA from the bacterial culture after the culture becomes saturated
- 3) transforming fresh bacteria with the isolated plasmid DNA
- 4) repeating steps 1-3 until the desired extent of mutagenesis is achieved.

I wish to declare and make a verified statement that the modified claims contain no new matter as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825 (d).

Please under MPEP 707.07(j) the pro se applicant requests that if the Examiner finds patentable subject matter disclosed in this application, but feels that applicant's present claims are not entirely suitable, the Examiner draft one or more allowable claims for the applicant.

Respectfully submitted,

A handwritten signature in cursive script, reading "Elizabeth Frayne". The signature is written in black ink and is positioned above the printed name and address.

Elizabeth Gay Frayne, PhD  
2027 Galvin Ln. #1  
Diamond Bar, CA 91765  
(909)860-7415